#### Cairo Governorate

Near City Educational Zone St.Fatime Lenguege School



#### Answer the following questions:



#### Choose the correct answer:

- (a) 45°
- (b)  $90^{\circ}$
- (c) 135°
- (d) 180°

2 If two straight lines are perpendicular to a third , then the two straight lines are .....

- (a) perpendicular. (b) parallel. (c) intersecting.
- (d) congruent.

If  $\triangle ABC \equiv \triangle XYZ$ ,  $m(\angle A) + m(\angle B) = 100^{\circ}$ , then  $m(\angle Z) = \cdots$ 

- (a) 90°
- (b) 100°
- (c) 50°
- (d) 80°

4 From the opposite figure:

X = .....

(a) 60°

(b) 140°

(c) 30°

(d) 180°

5 In the opposite figure:

AF // XD // YE // CB

AX = XY = YC, then AD: AB = ....

- (a) 1:1
- (b) 1:2
- (c) 1:3

6 If  $\triangle$  ABC  $\equiv$   $\triangle$  LMN, then m ( $\angle$  ACB) = m ( $\angle$  .....)

- (a) LMN (b) MLN (c) LNM

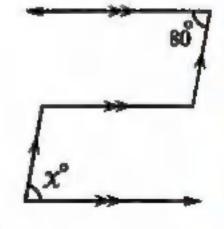
#### 2 Complete:

1 If the ratio between the measures of two adjacent supplementary angles is 1:2 , then the measure of the largest angle is ......

2 If m ( $\angle A$ ) = 120°, then m (reflex  $\angle A$ ) = .....°

3 Two triangles are congruent if each side of .....

4 From the opposite figure:

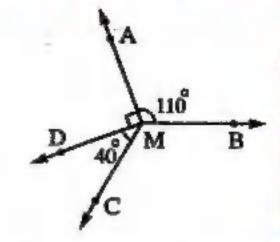


هذا العمل حصرى على موقع ذاكرولي التعليمي ويسمح بمشاركته فقط ولا يسمح بتداوله على أي مواقع أخرى للمزيد من أعمالنا الحصرية تفضل بزيارة موقعنا الألكتروني من هنا https://www.zakrooly.com

#### Geometry

## والمجسول المتحوليسي الكوالي

5 From the opposite figure:



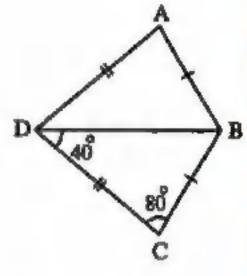
[a] In the opposite figure:

$$AB = BC \cdot AD = CD$$

$$m (\angle C) = 80^{\circ}$$

$$m (\angle BDC) = 40^{\circ}$$

Prove that :  $\triangle$  CBD  $\equiv$   $\triangle$  ABD and find : m ( $\angle$  ABD)

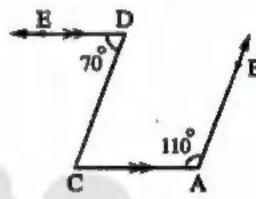


[b] In the opposite figure:

$$\overrightarrow{DE} // \overrightarrow{AC} \cdot m (\angle A) = 110^{\circ}$$

$$m (\angle D) = 70^{\circ}$$

Prove that : AB // CD



[a] In each of the following figures, find the value of X and give reason to your answer:

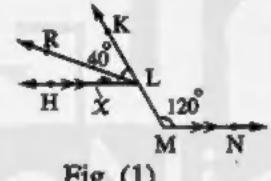
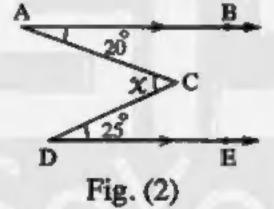


Fig. (1)



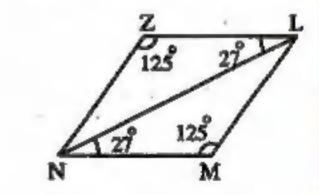
[b] Draw any acute-angled triangle, construct the perpendicular bisector of each side. Do the perpendicular bisectors intersect at one point?

[a] From the opposite figure :

Prove that:

The two triangles LMN and NZL are congruent

, then find : m (∠ LNZ)



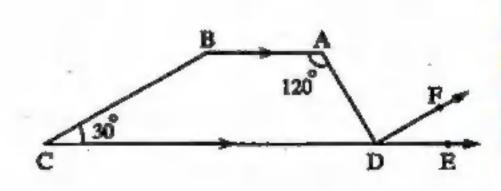
[b] In the opposite figure:

$$\overline{AB} // \overline{CE} , m (\angle BAD) = 120^{\circ}$$

$$m (\angle BCD) = 30^{\circ}$$

, m (∠ BAD) is four times m (∠ FDE)

Prove that :  $\overrightarrow{DF} / / \overrightarrow{BC}$  and  $\overrightarrow{DF} \perp \overrightarrow{AD}$ 



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#### Cairo Governorate

El-Zattoun Educational Zone El-Ma'eref Modern Language School



#### Answer the following questions:

#### Choose the correct answer:

- If two straight lines are perpendicular to a third then the two straight lines are .....
- (a) perpendicular. (b) parallel. (c) congruent.
- (d) intersecting.
- 2 If  $\triangle$  ABC  $\equiv$   $\triangle$  XYZ ,  $m(\angle A) + m(\angle B) = 100°$ , then  $m(\angle Z) = \cdots$

(b) 90°

- $(c) 80^{\circ}$
- (d) 100°
- $\square$  The image of the point (-3,5) by translation of 3 units in the negative direction of the y-axis is .....

(a) 50°

- (a) (-3, 2) (b) (-3, 8) (c) (-6, 5)
- (d) (0,8)

#### 4 In the opposite figure:

$$\overrightarrow{BA} \cap \overrightarrow{CD} = \{C\}$$

- $m (\angle DCA) = 80^{\circ}$
- , then  $x = \cdots$
- (a) 20°
- (b) 25°
- (c) 30°
- (d) 100°

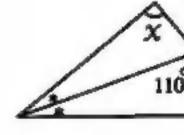
B

- 5 If  $\triangle$  ABC  $\equiv$   $\triangle$  XYZ ,  $m(\angle A) = 50^{\circ}$  ,  $m(\angle Y) = 60^{\circ}$ 
  - , then m ( $\angle$  C) = .....
  - (a) 50°
- (b) 60°
- (c) 70°
- (d) 80°
- 6 The measure of the supplement of the angle whose measure is 30° equals ......
  - (a) 60°
- (b) 180°
- (c) 90°
- (d) 150°

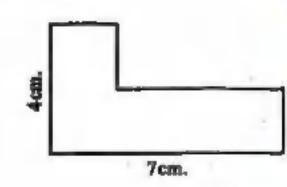
### Complete the following:

- 1 If a straight line intersects two parallel straight lines then each two corresponding angles are .....
- 2 In the opposite figure :

 $\chi = \cdots$ 



- $\exists \text{ If } \angle X \text{ complements } \angle Y \text{ and } \angle X \equiv \angle Y$ , then m ( $\angle X$ ) = .....°
- The perimeter of the opposite figure is ...... cm.
- The two right-angled triangles are congruent if .....



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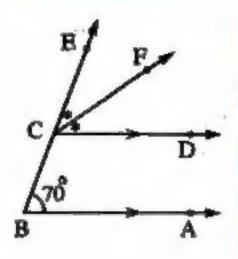
#### Geometry

### المحسل الكوالي والكوال

[a] From the opposite figure , find :

m (∠ ECF)

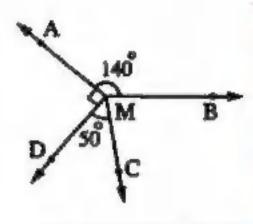
Give the reason.



[b] From the opposite figure, find:

m (Z BMC)

With steps.



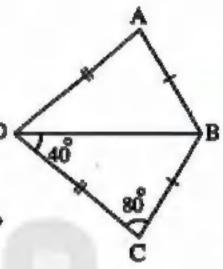
[a] In the opposite figure :

AB = BC, AD = CD,  $m (\angle C) = 80^{\circ}$ ,  $m (\angle BDC) = 40^{\circ}$ 

1 Prove that :  $\triangle CBD = \triangle ABD$ 

**2** Find: m (∠ ABD)

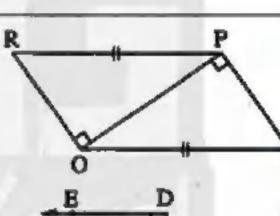
[b] By using your geometric instruments, draw ∠ ABC of measure 110°, then draw BF to bisect the angle.



[a] From the opposite figure :

**Prove that:**  $\triangle AOP = \triangle SPO$ 

 $2 m (\angle RPS) = m (\angle SOR)$ 

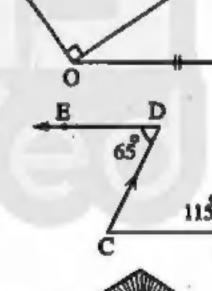


[b] In the opposite figure:

If  $\overrightarrow{AB} // \overrightarrow{CD}$ , m ( $\angle D$ ) = 65°, m ( $\angle A$ ) = 115°

, then prove that :

AC // DE



### 3) Cairo Governorate

Zone Educative Abdine



Answer the following questions :

Choose the correct answer:

If  $\angle X$  complements  $\angle Y$  and  $\angle X = \angle Y$ , then m ( $\angle X$ ) = ......

(a) 45°

(b) 90°

(c) 180°

(d) 360°

If  $\triangle$  ABC  $\equiv$   $\triangle$  XYZ, m ( $\angle$  A) + m ( $\angle$  B) = 100°, then m ( $\angle$  Z) = ...............

(a) 50°

(b) 80°

(c) 90°

(d) 100°



## Geometry

التحسل الكوالي والكوال

- 3 If two straight lines are perpendicular to a third
  - , then the two straight lines are .....
  - (a) perpendicular.
- (b) parallel.
- (c) congruent.
- (d) intersecting.
- The sum of the measures of the accumulative angles at a point is .....
  - (a) 630°
- (b) 180°
- $(c) 90^{\circ}$
- (d) 360°
- The measure of the supplement of the angle whose measure is 30° equals ......
  - (a) 60°
- (b) 180°
- (c) 150°
- (d) 90°
- The angle whose measure is more than 90° and less than 180° is ...... angle.
  - (a) an obtuse
- (b) an acute
- (c) a right
- (d) a straight

#### Complete the following:

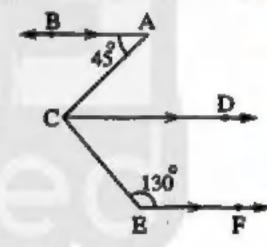
- The two triangles are congruent if two sides and ...... are congruent with the corresponding parts of the other.
- If  $\triangle ABC = \triangle XYZ$ , then  $m (\angle Z) = m (\angle \dots)$
- The sum of the measures of the accumulative angles at a point equals ......
- If m ( $\angle A$ ) = 110°, then m (reflex  $\angle A$ ) = .....°
- The two adjacent angles formed by intersecting of a straight line and a ray are .....

#### [a] In the opposite figure :

$$\overrightarrow{AB} / \overrightarrow{CD} / \overrightarrow{EF}, m (\angle A) = 45^{\circ}$$

• m (
$$\angle E$$
) = 130°

Find: m (\( \alpha \) ACE)

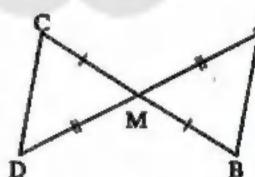


#### [b] In the opposite figure:

$$\overline{AD} \cap \overline{BC} = \{M\}$$
,  $BM = MC$ ,  $AM = MD$ 

, write the conditions

for  $\triangle$  AMB  $\rightarrow$   $\triangle$  DMC to be congruent.



#### [a] In the opposite figure:

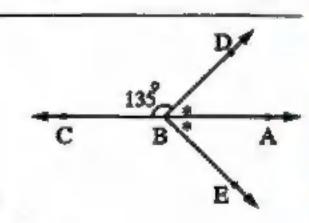
If 
$$B \in \overrightarrow{AC} \cdot m (\angle DBC) = 135^{\circ}$$

and BA bisects ∠ DBE

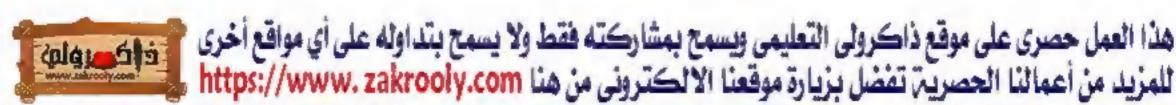
Find: 1 m (∠ ABD)

2 m (\( \text{DBE} \)

3 m (∠ CBE)



[b] By using your geometric instruments , draw ∠ ABC whose measure is 130° , then draw BF to bisect the angle.



#### Geometry

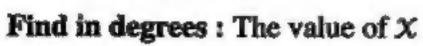


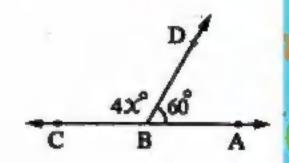
[a] In the opposite figure :

$$\overrightarrow{AC} \cap \overrightarrow{BD} = \{B\}$$

$$m (\angle ABD) = 60^{\circ}$$

$$, m (\angle DBC) = 4 x^{\circ}$$



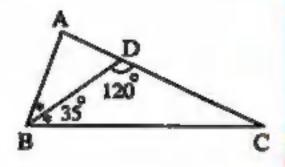


#### [b] In the opposite figure:

$$\overrightarrow{BD}$$
 bisects  $\angle ABC \cdot m (\angle DBC) = 35^{\circ}$ 

$$m (\angle BDC) = 120^{\circ}$$

Find:  $m (\angle A)$  in degrees.



#### Giza Governorate

El-Haram Zone El-Mearefa Exp. Lang. School



### Answer the following questions:



#### Choose the correct answer:

1 If  $\triangle ABC = \triangle XYZ$ ,  $m(\angle A) = 50^{\circ}$ ,  $m(\angle B) = 60^{\circ}$ , then  $m(\angle Z) = \cdots$ 

- (a) 50°
- (b)  $60^{\circ}$
- $(c)70^{\circ}$
- (d) 120°

The sum of measures of the accumulative angles at a point equals .....

- (a) 180°
- (b) 630°
- (c)  $360^{\circ}$
- (d) 603°

The angle whose measure is 78° 60, is ..... angle.

- (a) a right
- (b) an acute
- (c) an obtuse
- (d) a straight

- (a) 45°
- (b) 90°
- (c) 100°
- (d) 180°

5 If two straight lines are parallel to a third straight line, then they are

- (a) perpendicular.
- (b) parallel.
- (c) congruent.
- (d) intersecting.

The measure of the supplement of an angle of measure 35° equals .....

- (a)  $65^{\circ}$
- (b) 165°
- (c) 180°
- (d) 145°

#### Complete the following:

The perpendicular bisector of a line segment is called ......

2 If m ( $\angle A$ ) = 160°, then m (reflex  $\angle A$ ) = ......

3 The two adjacent angles formed by a straight line and a ray with a start point on this straight line are .....



#### Geometry

التحسل الكواسي الكوال

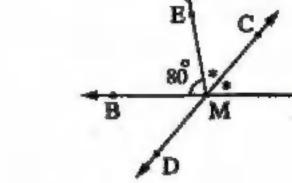
- 4 If two straight lines intersect, then each two vertically opposite angles are .....
- 5 If L, 1 L, and L, // L, then L, .... L,

#### [a] In the opposite figure:

$$\overrightarrow{AB} \cap \overrightarrow{CD} = \{M\}, m (\angle BME) = 80^{\circ}$$

, MC bisects ∠ AME

Find: 1 m (∠ AMC) 2 m (∠ BMD)

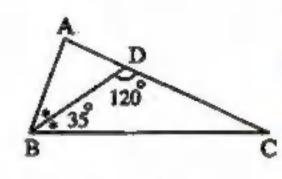


#### [b] In the opposite figure:

$$\overrightarrow{BD}$$
 bisects  $\angle$  ABC  $\rightarrow$  m ( $\angle$  DBC) = 35°

 $m (\angle BDC) = 120^{\circ}$ 

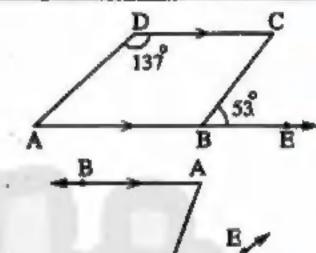
Find:  $m (\angle A)$  in degrees.



#### [a] In the opposite figure:

$$\overrightarrow{AB} // \overrightarrow{DC}, \mathbf{m} (\angle EBC) = 53^{\circ}, \mathbf{m} (\angle D) = 137^{\circ}$$

Is BC // AD ? "State the reason"

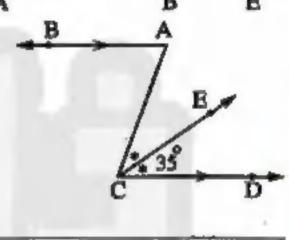


## [b] In the opposite figure:

$$\overrightarrow{AB} / / \overrightarrow{CD} \rightarrow \overrightarrow{CE}$$
 bisects  $\angle ACD$ 

 $, m (\angle DCE) = 35^{\circ}$ 

Find:  $m(\angle A)$ 



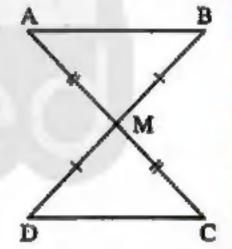
#### [a] Draw ∠ ABC of measure 85°, then bisect it. (Don't remove the arcs)

#### [b] In the opposite figure:

AM = CM

BM = DM

Show with the reason if  $\triangle ABM \equiv \triangle CDM$  or not.



## Giza Governorate

Bouleg El-Dakrour Dire. of Edu. Der El-Hanen Lang. Seh. for Girle



#### Answer the following questions:

#### Choose the correct answer:

- The supplement of the angle whose measure is 30° is an angle whose measure is ...
  - (a) 60°
- (b) 180°
- (c) 150°
- (d) 90°
- If  $\triangle ABC \equiv \triangle XYZ$  and  $m(\angle A) + m(\angle B) = 110^{\circ}$ , then  $m(\angle Z) = \cdots$ 
  - (a) 50°
- (b) 60°
- (c) 70°
- (d) 80°



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### Geometry

## التحسيل التصواسي الكول

3 From the opposite figure:

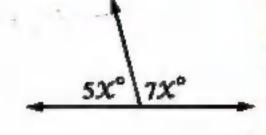
The value of  $X = \cdots$ 

 $(a) 30^{\circ}$ 

(b)  $15^{\circ}$ 

(c) 45°

(d) 18°



- 4 From the opposite figure:
  - X = .....
  - (a) 20°
- (b)  $30^{\circ}$
- (c) 40°
- (d) 120°

- 5 The angle of measure 179° is .....
  - (a) acute.
- (b) obtuse.
- (c) right.
- (d) straight.

6 In the opposite figure:

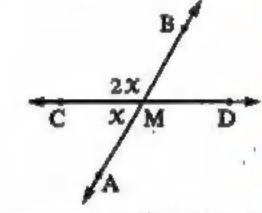
$$\overrightarrow{AB} \cap \overrightarrow{CD} = \{M\}$$
, then  $x = \dots$ 

(a) 30°

(b)  $60^{\circ}$ 

(c) 45°

(d) 90°



#### Complete the following:

- 1 The complement of an angle of measure 65° is an angle of measure ......°
- 2 If  $m (\angle B) = 160^{\circ}$ , then  $m (reflex \angle B) = \dots$
- In the opposite figure :

CD // BA, DE // CB

, then X = ......



4 In the opposite figure:

If  $\overrightarrow{MB} \cap \overrightarrow{AC} = \{M\}$ , m ( $\angle AMB$ ) = 60°

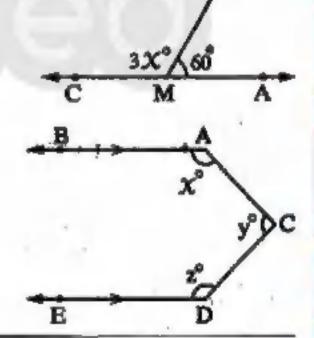
, then the value of X equals .....°



### 5 In the opposite figure :

AB // DE

, then  $X + y + z = \cdots$ 

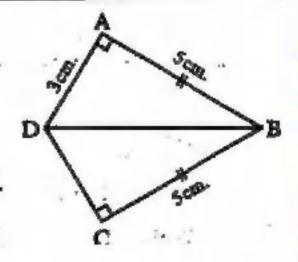


#### [a] In the opposite figure:

 $m(\angle A) = m(\angle C) = 90^{\circ}$ 

AB = BC = 5 cm. AD = 3 cm.

- 1 Mention the conditions for  $\triangle$  ABD  $\rightarrow$   $\triangle$  CBD to be congruent.
- 2 Find: The length of CD.





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#### Geometry

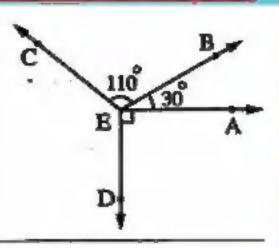
### المحسل التعراسي الكوال

[b] In the opposite figure:

$$m (\angle AEB) = 30^{\circ}, m (\angle BEC) = 110^{\circ}$$

$$m (\angle AED) = 90^{\circ}$$

Find: 
$$m (\angle DEC)$$



[a] In the opposite figure:

$$B \in AC$$
,  $m (\angle FBC) = 30^{\circ}$ 

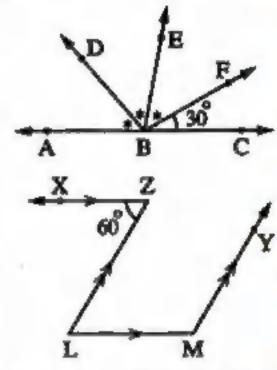
$$m (\angle ABD) = m (\angle DBE) = m (\angle EBF)$$

Find:  $m (\angle ABE)$ 



$$\overrightarrow{ZX} // \overrightarrow{LM}, \overrightarrow{LZ} // \overrightarrow{MY}, m (\angle Z) = 60^{\circ}$$

Find: 
$$1 \text{ m} (\angle L)$$

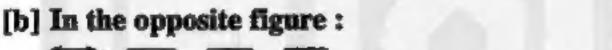


[a] In the opposite figure:

BD bisects 
$$\angle$$
 ABC  $\Rightarrow$  m ( $\angle$  DBC) = 35°

$$_{9}$$
 m ( $\angle$  BDC) = 120°

Find:  $m(\angle A)$ 

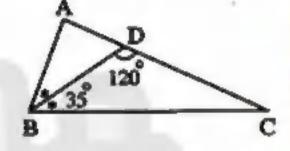


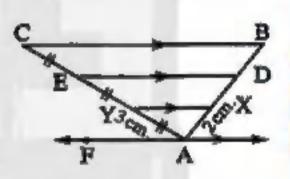
 $\overrightarrow{AF} / | \overrightarrow{XY} / | \overrightarrow{DE} / | \overrightarrow{BC}$  and  $\overrightarrow{AY} = \overrightarrow{YE} = \overrightarrow{EC}$ ,  $\overrightarrow{AY} = 3$  cm.

, AX = 2 cm. and the perimeter of  $\triangle$  ABC = 23 cm.

Find: The length of BC

[c] Draw ∠ ABC of measure 100° and bisect it.





(Don't remove the arcs)

## Alexandria Governorate

East Educational Zone Cidi Gabor Long. Sch. for boys



#### Answer the following questions:

#### Complete the following:

- 1 If m ( $\angle A$ ) = 120°, then the measure of the reflex angle of  $\angle A$  = .....°
- [2] The two adjacent angles formed by intersecting a straight line and a ray are .....
- [3] If ∠ A supplements ∠ B and ∠ A supplements ∠ C , then ∠ B and ∠ C are .....
- 4 Two triangles are congruent if the lengths of two sides and the measure of ...... are congruent with the corresponding parts of the other.



## Geometry

الكحسل الكواسي الكوال

- If  $\angle A$  and  $\angle B$  are complementary angles  $\Rightarrow$  m ( $\angle A$ ) = 2 m ( $\angle B$ ) , then m ( $\angle B$ ) = .....°
- 2 Choose the correct answer:
  - 1 If two straight lines are perpendicular to a third, then the two straight lines are .....
    - (a) perpendicular.
- (b) congruent.
- (c) parallel.
- (d) intersecting.
- 2 The axis of symmetry of a line segment is ......
  - (a) perpendicular from its midpoint.
- (b) equal to it.

(c) parallel to it.

(d) congruent to it.

3 In the opposite figure:

(a) 80

(b) 120

(c) 100

(d) 180

4 In the opposite figure:

(a) 100

(b) 120

(c) 140

- (d) 240
- 5 If  $\triangle$  ABC  $\equiv$   $\triangle$  XYZ ,  $m(\angle Z) = 55^{\circ}$ , then  $m(\angle A) + m(\angle B) = \cdots$ 
  - (a) 110
- (b) 115
- (c) 120
- (d) 125

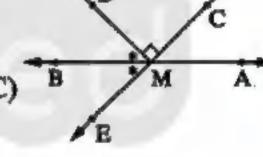
## 3 [a] In the opposite figure :

 $\overrightarrow{AB} \cap \overrightarrow{CE} = \{M\}$ ,  $\overrightarrow{MD} \perp \overrightarrow{MC}$ ,  $\overrightarrow{MB}$  bisects  $\angle \overrightarrow{DME}$ 

Find showing the reason: ☐ m (∠ BME)

3 m ( AME)

2 m ( $\angle$  AMC) B



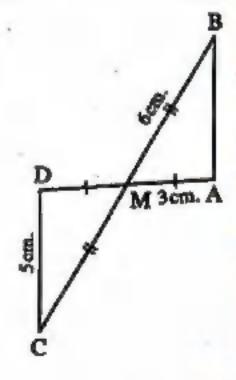
- [b] Draw the line segment AB of length 8 cm. , then construct the axis of symmetry of AB (Don't remove the arcs)
- [a] In the opposite figure:

#### Complete:

 $1 \Delta ABM = \Delta$ 

 $2m(\angle B) = m(\angle \cdots)$ 

 $\boxed{\mathbf{3}} \mathbf{m} (\angle \mathbf{A}) = \mathbf{m} (\angle \cdots )$ 





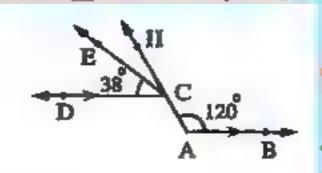
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[b] In the opposite figure:

$$\overrightarrow{AB}$$
 //  $\overrightarrow{DC}$ , m ( $\angle A$ ) = 120°, H  $\in \overrightarrow{AC}$ 

 $m (\angle ECD) = 38^{\circ}$ 

Find:  $m (\angle ACD) = m (\angle HCE)$  (showing the reason)



#### 5 In III opposite figure :

OR is the axis of symmetry of the shape NERAM, O 

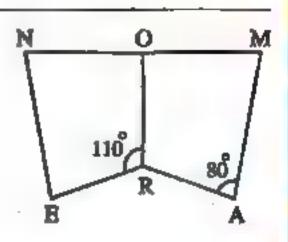
MN

Complete 1 1 Quad AMOR ≡ Quad ······

2 m (∠ NOR) = ■ (∠ .....)

4 m (∠ ORA) = m (∠ .....) = .....°

5 m (∠ NER) = m (∠ .....) = .....°



#### Alexandria Governorate

Borg El-Arab Educational Zone -Cafwa Integrated Schools



Answer the following questions: (Calculator is allowed)

#### Complete each of the following:

The sum of measures of the accumulative angles at ■ point equals ......°

3 If m ( $\angle$  B) = 160°, then m (reflex  $\angle$  B) = ......°

4 The perpendicular bisector of a line segment is called ......

The number of triangles in the opposite figure is ......



#### Choose the correct

1 If  $L_1 // L_2$  and  $L_2 \perp L_3$ , then .....

(a)  $L_1 \perp L_2$  (b)  $L_3 // L_3$  (c)  $L_1 \perp L_3$ 

 $(d) L_2 // L_1$ 

2 If  $\triangle$  ABC  $\equiv$   $\triangle$  XYZ and m ( $\angle$  A) + m ( $\angle$  B) = 110°, then m ( $\angle$  Z) = .....°

(a) 50

(b) 60

(c) 70

(d) 80

3 If the ratio between the measures of two supplementary angles is 113 

(a) 50

(b) 130

(c) 150

(d) 180°

4 The type of the angle of measure 89° 60 is .....

(a) acute.

(b) obtuse.

(c) right.

(d) reflex.



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#### Geometry

المجسل الكواسي الكوال

- The two diagonals are perpendicular and equal in length in the
  - (a) rectangle.
- (b) rhombus.
- (c) square.
- (d) parallelogram.

- B If  $\triangle$  ABC  $\equiv$   $\triangle$  LMN, then  $\overrightarrow{AC}$  ...... LN
  - (a) =

- (b)≡
- (c) <
- (d)>

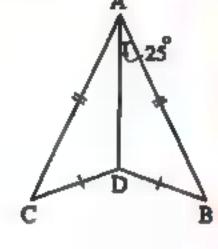
### 3 [a] In poposite figure:

$$AB = AC \cdot BD = CD$$

$$m (\angle BAD) = 25^{\circ}$$

Is 
$$\triangle$$
 ADC  $\equiv$   $\triangle$  ADB? Why?

Find:  $m (\angle CAB)$ 



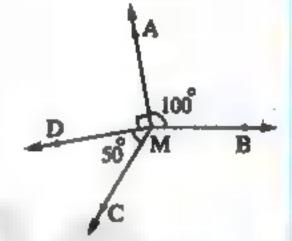
#### [b] In IIII opposite figure:

$$m (\angle BMA) = 100^{\circ}$$

$$m (\angle AMD) = 90^{\circ}$$

$$m (\angle DMC) = 50^{\circ}$$

Find with steps: m (∠ BMC)

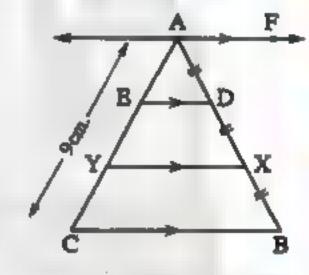


#### [a] In the opposite figure :

$$,AD = DX = XB$$
  $,AC = 9$  cm.

Find: The length of AY (Give reason)

[b] Draw \( \text{ABC of measure 100° and bisect it.} \)

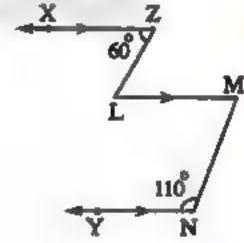


#### [a] In the opposite figure:

$$m (\angle N) = 110^{\circ}$$

$$m (\angle Z) = 60^{\circ}$$

2 m (∠ M)

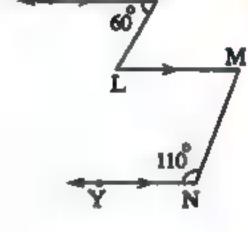


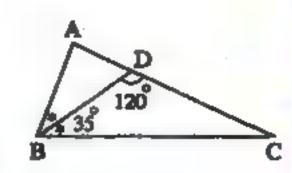
#### [b] In the opposite figure:

$$m (\angle DBC) = 35^{\circ}$$

$$m (\angle BDC) = 120^{\circ}$$

Find:  $m(\angle A)$ 







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#### El-Kalyoubia Governorate

Directorate of Education Mathamatica Supervision



#### Answer the following questions:

#### Choose the correct answer:

If  $\triangle ABC = \triangle XYZ$ , then  $AC = \cdots$ 

(a) XY

(b) XZ

(c) YZ

(d) AB

2 If m ( $\angle$  B) = 105°, then m (reflex  $\angle$  B) = .....

(a)  $255^{\circ}$ 

(b) 75°

(c) 105°

 $(d) 50^{\circ}$ 

3 If AB = CD and AB = 4 cm., then AB + 2  $CD = \cdots cm$ .

(a) 10

(b)4

(c) 8

(d) 12

The measure of the supplementary of the angle whose \_\_\_\_\_ is 30° equals ......°

(a) 60

(b) 💹

(c) 150

(d) 90

(a) 5

(b) 15

(c) 25

(d) 10

(a) 60

(b) 90

(c) 180

(d) 70

#### Complete the following:

1 The two diagonals are equal in length in ..... and .....

The perpendicular bisector of a line segment is called .....

3 The sum of the measures of the accumulative angles at a point equals .......

If  $\triangle ABC = \triangle XYZ$ ,  $m (\angle A) + m (\angle B) = 100^{\circ}$ , then  $m (\angle Z) = \cdots$ 

If two straight lines are perpendicular to a third, then the two straight lines are

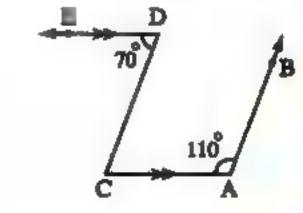
#### [a] In the opposite figure :

 $\overline{DE} // \overline{AC}$ , m ( $\angle A$ ) = 110°, m ( $\angle D$ ) = 70°

Complete the following:

11 m (\( \alpha \) C) = ..... because .....

2 Is AB // CD ? (.....) because .....



[b] Using the geometric instruments, draw  $\angle$  ABC where  $= (\angle B) = 120^{\circ}$ 

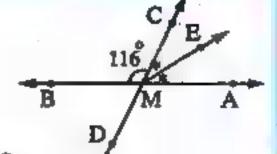
, then draw BD to bisect the angle.

(Don't remove the arcs)



[a] In opposite figure:

$$\overrightarrow{AB} \cap \overrightarrow{CD} = \{M\}$$
,  $\overrightarrow{ME}$  bisects  $\angle$  AMC,  $m$  ( $\angle$  BMC) = 116°



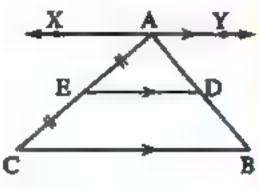
Complete the following: 1 m (∠ AMC) = .....°

[b] In the opposite figure:

$$\overline{XY} / \overline{ED} / \overline{BC}$$
, AE = EC

Complete the following :

2 AD : AB = .....



[2] From the opposite figure complete Ihr following:

$$\boxed{1} \Delta ABM = \Delta \cdots$$

$$3m (\angle B) = m (\angle \cdots )$$

[b] Mention two cases of congruency of two triangles.

## El-Sharkia Governorate

West Zegezig Zone zig English Long. Sch. for Girls



Answer the following questions:

Choose the correct answer:

1 If  $\angle X$  complements  $\angle Y$  and  $\angle X = \angle Y$ , then m ( $\angle X$ ) = .....°

(a)45

(b)90

(c)20

(d) 180

 $\blacksquare$  A square is of perimeter 20 cm., then its  $\blacksquare = \dots = \dots = \dots = \dots$ 

(a)4

(b) 5

(c)25

(d)400

The two diagonals are equal in length in the .....

(a) rhombus.

(b) parallelogram.

(c) trapezium.

(d) rectangle.

In il opposite figure :

 $B \in \overrightarrow{AC}$ , then  $x = \cdots$ 

(a) 30

(b) 120

(c)40

(d) 150

If  $m (\angle A) = 110^{\circ}$  then  $m (reflex \angle A) = \cdots$ 

(a)  $70^{\circ}$ 

**(b)** 360°

(c) 250°

(d) 150°



#### Geometry

B In the opposite figure:

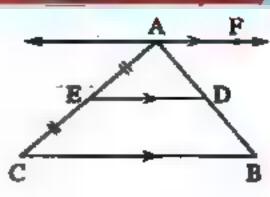
If AF // ED // CB , AE = EC , then AD : AB = .....

(a) 2:1

(b) 3:2

(c) 1:3

(d) 1:2



Complete each of the following t

If  $\triangle ABC \cong \triangle XYZ$ ,  $m(\angle A) + m(\angle B) = 120^{\circ}$ , then  $m(\angle Z) = \dots^{\circ}$ 

If a straight line intersects two parallel lines, then each two corresponding angles

If  $\triangle ABC = \triangle XYZ$ , then  $AC = \cdots$ 

4 Two right-angled triangles me congruent if .....

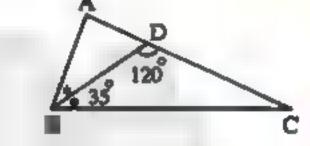
5 If two straight lines intersect • then the measures of each two vertically opposite angles are .....

[a] In the opposite figure:

BD bisects  $\angle$  ABC  $\cdot$  m ( $\angle$  DBC) = 35°

 $m (\angle BDC) = 120^{\circ}$ 

Find:  $m (\angle C) \cdot m (\angle ABC)$  and  $m (\angle A)$ 



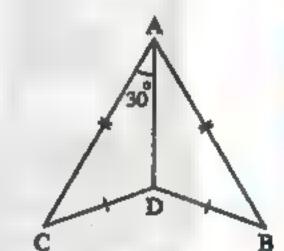
[b] In the opposite figure:

AC = AB , DC = DB

 $m (\angle CAD) = 30^{\circ}$ 

1 Prove that :  $\triangle ABD = \triangle ACD$ 

₽ Find: m (∠ CAB)



[a] In le opposite figure :

 $\overrightarrow{DF} // \overrightarrow{AC} \cdot m (\angle A) = 100^{\circ}$ 

,  $\overrightarrow{DE}$  bisects  $\angle$  FDC , m ( $\angle$  FDE) = 40°

If  $m (\angle FDC)$  and  $m (\angle C)$ 

Prove that : CD // AB

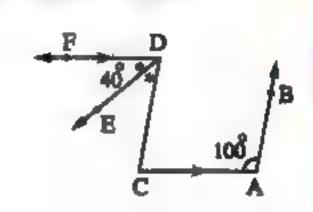


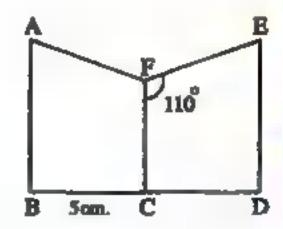
The polygon ABCF = the polygon EDCF

 $, m (\angle EFC) = 110^{\circ}, BC = 5 cm.$ 

Find: Im (∠AFC), m (∠AFE) and m (∠FCB)

The length of BD





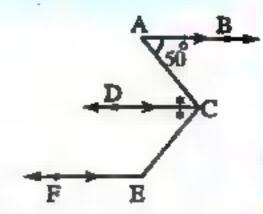
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[a] In the opposite figure:

AB // CD // EF , CD bisects \( \text{ACE} \)

$$, m (\angle A) = 50^{\circ}$$

Find I m ( $\angle$  ACE) and m ( $\angle$  E)



[b] Using the ruler and compasses, draw the triangle ABC in which BC = 6 cm.

, AB = AC = 5 cm. Draw 
$$\overrightarrow{AD} \perp \overrightarrow{BC}$$
 where  $\overrightarrow{AD} \cap \overrightarrow{BC} = \{D\}$ 

(Don't remove the arcs)



#### El-Monofia Governorate

Kwama Educational Directorate Methamatine Supervision



Answer the following questions: (Calculator is permitted)

Choose the correct

The sum of the reserves of the accumulative angles at point equias ......°

- (a) 90
- (b) 180
- (c) 270
- (d) 360

If two triangles ABC and XYZ are congruent, then ......

- (a) BC = XZ
- (b) YX = CA
- (c) ZY = CB
- (d)AB = YZ

If a straight line intersects two parallel straight lines, then each two interior angles in the same side of the transversal are .....

- (a) equal.
- (b) supplementary. (c) corresponding.
- (d) complementary.

If  $\triangle ABC = \triangle XYZ$ ,  $m(\angle A) + m(\angle B) = 115^{\circ}$ , then  $m(\angle Z) = \dots$ 

- (a) 115
- (b)65
- (c) 15
- (d) 70

If  $m (\angle A) = 90^{\circ}$ , then  $m (reflex \angle A) = \cdots$ 

- (a) 270
- (b) 180
- (c) 90
- (d)360

If  $\angle A$  supplements  $\angle \blacksquare$  and  $\angle A = \angle B$ , then  $\blacksquare (\angle B) = \cdots \circ$ 

- (a)45
- (b) 90
- (c) 120
- (d)60

Complete each of the following:

The angle whose measure is 40° complements an angle of \_\_\_\_\_\_.

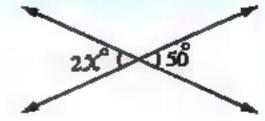
Two triangles congruent if two sides and the ..... in rest of them congruent to their corresponding parts of the other.

If two straight lines are perpendicular to a third line, then these two straight lines are

If L<sub>1</sub> // L<sub>2</sub> and L<sub>1</sub> \(\perp \L\_2\) is then L<sub>2</sub> ..... L<sub>2</sub>



5 In poposite figure:



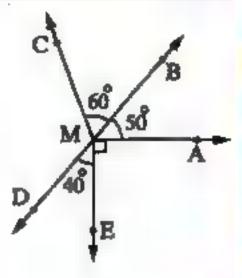
[a] In the opposite figure:

$$m (\angle AMB) = 50^{\circ}$$



$$m (\angle BMC) \simeq 60^{\circ}$$

, m (
$$\angle$$
 DME) = 40° and MA  $\perp$  ME



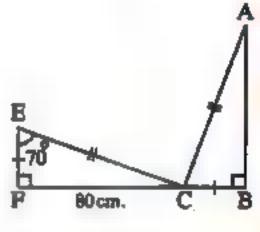
[b] In the opposite figure:

$$CB = FE \cdot AC = EC$$

$$m (\angle B) = m (\angle F) = 90^{\circ}$$

, m (
$$\angle$$
 E) = 70° and FC = 80 cm.

Find: 
$$m (\angle A)$$
 and the length of  $\overline{AB}$ 



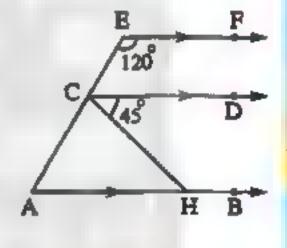
[a] Draw the angle ABC where m ( $\angle$  B) = 130°, using the ruler and the compasses bisect  $\angle$  B

[b] In the opposite figure:

$$m (\angle CEF) = 120^{\circ}$$

$$m (\angle HCD) = 45^{\circ}$$

Find: The measures of the angles of  $\triangle$  AHC

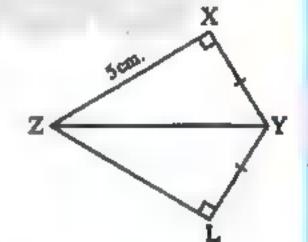


[a] In the opposite figure:

$$m (\angle ZXY) = m (\angle ZLY) = 90^{\circ}$$

, 
$$XY = LY$$
 and  $ZX = 5$  cm.

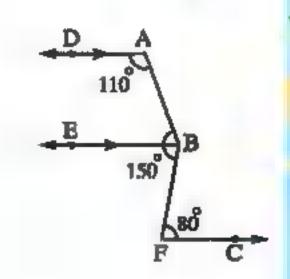
1 Is 
$$\triangle YXZ = \triangle YLZ$$
? Why?



[b] In the opposite figure:

$$m (\angle F) = 80^{\circ}$$

$$m (\angle A) = 110^{\circ} \text{ and } m (\angle ABF) = 150^{\circ}$$



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#### El-Dakahlia Governorate

## Talkba Educational Directorate



#### Answer the following questions:

#### Choose the correct answer I

- 1 The sum of measures of the accumulative angles a point is ......
  - (a) 180°
- (b) 90°
- (c) 360°
- (d)  $60^{\circ}$

- 2 The acute angle supplements ..... angle.
  - (a) acute
- (b) mu obtuse
- (c) right
- (d) a reflex
- 3 The two straight lines parallel to a third straight line are .....
  - (a) intersecting. (b) congruent.
- (c) parallel.
- (d) perpendicular.
- If  $\triangle ABC = \triangle DEF$ ,  $m(\angle A) + m(\angle B) = 110^{\circ}$ , then  $m(\angle F) = \cdots$ 
  - (a) 180°
- (b) 110°
- (c) 80°
- (d) 70°

In the opposite figure :

X = .....

- (a) 80°
- (b) 100°
- (c) 20°
- (d) 40°

- **B** AB U AC = .....
  - (a) AB
- (b) ∠ ABC
- (c) ∠ BAC
- (d) Ø

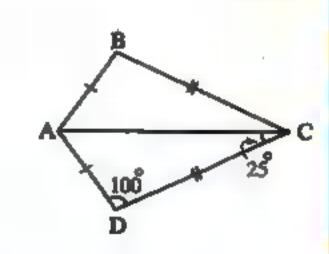
#### Complete the following:

- 1 The complement of an angle of measure 75° is an angle of measure ......
- 2 If m ( $\angle A$ ) = 160°, then  $\blacksquare$  (reflex  $\angle A$ ) = .....°
- If two straight lines intersect, then the measures of each two vertically opposite angles
- If AB = XY, then  $AB XY = \cdots$
- If  $\angle A$  supplements  $\angle B$  and  $\angle A = \angle B$ , then  $m(\angle B) = \dots$ °

## [a] State any two cases of congruency of two triangles.

#### [b] From the opposite figure:

- $\square$  Prove that :  $\triangle$  ABC  $\equiv$   $\triangle$  ADC
- ? Find: m (\( \mathbb{B}\) BAC)





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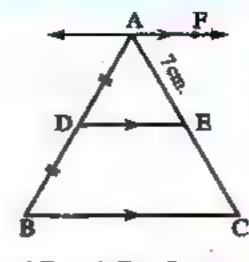
[a] In the opposite figure:

AF // DE // BC

D is the midpoint of AB

AE = 7 cm.

Find: AC



[b] Using the geometric instruments  $\cdot$  draw  $\triangle$  ABC in which BC = 6 cm.  $\cdot$  AB = AC = 5 cm.

, then draw AD  $\perp$  BC where  $\overline{AD} \cap \overline{BC} = \{D\}$  , Find by measuring : AD

(Don't remove the arcs)

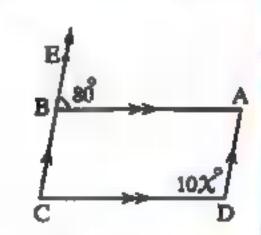
[a] In poposite figure :

AB // DC , BC // AD

 $, E \in \overrightarrow{BC}, m (\angle D) = 10 x^{\circ}$ 

 $m (\angle ABE) = 80^{\circ}$ 

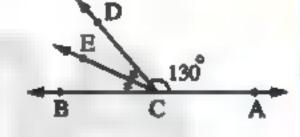
Find: The value of x



[b] In the opposite figure:

 $C \in \overline{AB}$ , m ( $\angle ACD$ ) = 130°,  $\overline{CE}$  bisects  $\angle BCD$ 

Find:  $\blacksquare$  ( $\angle$  DCE)



Ismailia Governorate

Directorate of Education Meth's Copervisin



Answer the following questions:

Choose the correct answer:

The angle of 60° supplements an angle of

(a) 40

(b) 30

(c) 120

(d) 90

(a) perpendicular. (b) intersecting. (c) parallel.

(d) congruent.

If  $\triangle ABC = \triangle XYZ$ ,  $m(\angle A) + m(\angle B) = 140^{\circ}$ , then  $m(\angle Z) = \dots$ 

(a) 60

(b) 40

(c) 80

(d) 140

The number of symmetry of the square equals .....

(a) 1

(b) 2

(c) 3

(d) 4

If a straight line cuts two parallel lines - then each two corresponding angles

(a) equal in

(b) complementary.

(c) supplementary.

(d) right.



### Geometry

التحسيل المحطسي التكولل

- B If  $m(\angle A) = 100^{\circ}$ , then  $m(\text{reflex } \angle A) = \cdots$ 
  - (a) 80
- (b) 260
- (c) 50
- (d) 100

## Complete the following:

- 3 If  $\angle C \equiv \angle D$   $\mathbf{m} (\angle C) = 90^{\circ}$ , then  $\mathbf{m} (\angle D) = \dots$
- 4 The measure of the straight angle equals .....°
- The perimeter of a square is 40 cm. , then its side length is ...... cm.

## [a] In the opposite figure:

AC = AB

DC = DB

Is  $\triangle$  ADB  $\cong$   $\triangle$  ADC? Why?

#### [b] In the opposite figure:

AD // BC

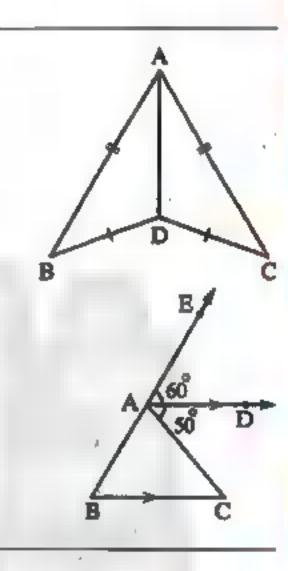
 $m (\angle \text{EAD}) = 60^{\circ}$ 

 $m (\angle CAD) = 50^{\circ}$ 

Find:  $\bigcirc 1 \text{ m } (\angle C)$ 

2 m (∠ B)

③ m (∠ BAC)



#### [a] In the opposite figure:

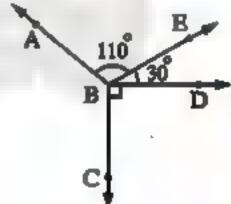
 $m (\angle DBE) = 30^{\circ}$ 

→ CBD is a right angle

 $m (\angle EBA) = 110^{\circ}$ 

Find | m (\( ABC \)

[b] Draw AB of length 6 cm. and bisect it.



(Don't remove the arcs)

#### [a] In the opposite figure :

BA // CD // YZ

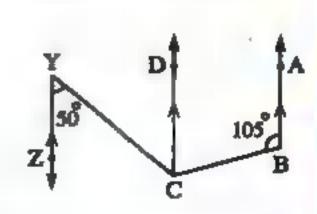
 $_{9}$  m ( $\angle$  ABC) =  $105^{\circ}$ 

 $m (\angle ZYC) = 50^{\circ}$ 

Find: ( YCD)

图 m (4 BCD)

**■** m (∠ BCY)





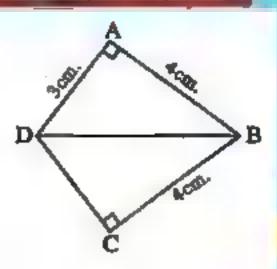
هذا العمل حصري على موقع ذاكرولي التعليمي ويسمح بمشاركته فقط ولا يسمح بتداوله على أي مواقع أخرى للمزيد من أعمالنا الحصريَّة تفضُّل بزيارة موقعنا الالكتروني من هنا www. zakrooly.com/

#### [b] In the opposite figure |

$$AB = BC = 4 \text{ cm.}$$
,  $AD = 3 \text{ cm.}$ 

$$\rightarrow m (\angle A) = m (\angle C) = 90^{\circ}$$

- 1 Is  $\triangle ABD \equiv \triangle CBD$ ? Why?
- 2 Find 1 The length of CD



## Governorate

Dunietta inspection of Mathematics Official Language Schools



#### Answer M. following questions:

#### Choose the correct

- 1 If  $\angle X$  supplements  $\angle Y$  and  $\angle X = \angle Y$ , then  $m (\angle X) = \cdots \circ$ 
  - (a) 45
- (b) 90
- (c) 180
- (d) 360

- 2 If  $\triangle ABC = \triangle XYZ$ , then .....
  - (a) AB = YZ
- (b) BC = XZ (c) YX = CA
- (d) ZY = CB
- 3 The centimeter cube is unit for measuring the ......
  - (a) perimeter.
- (b) area.
- (c) volume.
- (d) length.
- 4 Two straight lines are perpendicular to third line , then the two straight lines ----

  - (a) perpendicular. (b) parallel.
- (c) congruent.
- (d) intersecting.

- 5 XY ..... XY
  - (a) €
- (b) ∈
- (c) ⊂
- (₽)

B In the opposite figure:

If 
$$\overrightarrow{AC} \cap \overrightarrow{MB} = \{M\}$$

- , then the value of  $x = \dots$ °
- (a) 20
- (b) 30
- (c) 40
- (d) 60

#### Complete and of III following:

- 1 If m ( $\angle A$ ) = 120°, then m (reflex  $\angle A$ ) = .....°
- 2 If the perimeter of square is 20 cm., then its area equals ..... cm?
- 3 The number of edges of the cuboid is .....
- 4 If straight line cuts two parallel straight lines then each two alternate angles ----
- 5 If  $AB \equiv CD$ , then  $AB CD = \cdots$





[a] In the opposite figure r

$$m (\angle A) = 60^{\circ}$$

$$m (\angle D) = 120^{\circ}$$

1 Find: 
$$m (\angle C)$$
 2 Is  $\overrightarrow{AC} / \overrightarrow{DE}$ ? Why? (Write the steps)

[b] Draw  $\angle$  ABC where m ( $\angle$  B) = 115° Using the ruler and compasses bisect  $\angle$  B by BD

(Don't remove the arcs)

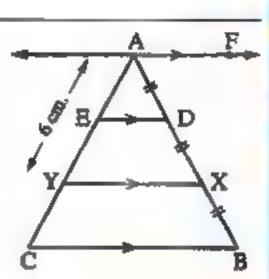


#### [a] In the opposite figure:

$$, AD = DX = XB$$

$$AY = 6 cm.$$

Find: The length of AC (Give the reason)



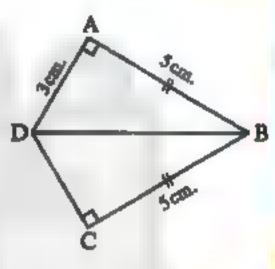
#### [b] In the opposite figure:

$$m (\angle BAD) = m (\angle BCD) = 90^{\circ}$$

$$AB = CB = 5 \text{ cm.}$$
  $AD = 3 \text{ cm.}$ 

Mention the conditions for  $\triangle$  ABD ,  $\triangle$  CBD  $\blacksquare$  be congruent

, then find : The length of CD

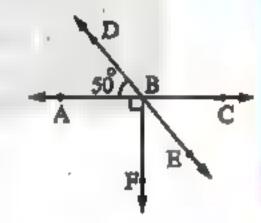


#### 5 [a] In the opposite figure:

$$\overrightarrow{AC} \cap \overrightarrow{DE} = \{B\}$$

$$m (\angle ABD) = 50^{\circ}$$

$$m (\angle ABF) = 90^{\circ}$$



## Find showing the steps:

 $1 \equiv (\angle DBC)$ 

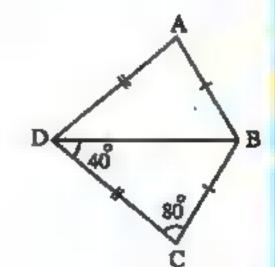


## [b] In the opposite figure:

$$AB = BC , AD = CD$$

$$m (\angle C) = 80^{\circ}$$

Is 
$$\triangle CBD \equiv \triangle ABD$$
? Why?





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#### Souhag Governorate

Methe Supervision



#### Answer the following questions:



#### Choose the correct answer:

If  $\angle X \equiv \angle Y$  and  $\angle X \cdot \angle Y$  are supplementary angles , then m ( $\angle X$ ) = .............

- (a) 45°
- (b)  $90^{\circ}$
- (c) 135°
- (d) 180°

2 If two straight lines are perpendicular to a third line, then the two straight lines are .....

- (a) perpendicular. (b) parallel.
- (c) congruent.
- (d) intersecting.

3 If  $\triangle XYZ = \triangle ABC$  and m  $(\angle A) + m (\angle B) = 100^{\circ}$ , then m  $(\angle Z) = \cdots$ 

- (a)  $50^{\circ}$
- (b)  $80^{\circ}$
- (c) 100°
- (d) 360°

4 The angle whose measure is more than 90° and less than 180° is .....

- (a) obtuse.
- (b) acute.
- (c) right.
- (d) straight.

5 If m ( $\angle X$ ) = 2 m ( $\angle Y$ ),  $\angle X$  and  $\angle Y$  are two complementary angles

- , then m  $(\angle Y) = \cdots$
- (a) 90°
- (b) 45°
- (c) 30°
- (d) 15°

6 The sum of the measures of the accumulative angles at a point is ......

- (a) 45°
- (b) 90°
- (c) 180°
- (d) 360°

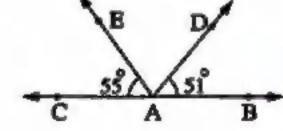
#### Complete each of the following:

1 If two straight lines intersects, then each two vertically opposite angles are

If  $\triangle$  ABC =  $\triangle$  XYZ, then XZ = .....

3 If  $\angle A$  supplements  $\angle B$ , m ( $\angle A$ ) = 100°, then m (reflex  $\angle B$ ) = ......

4 In the opposite figure:

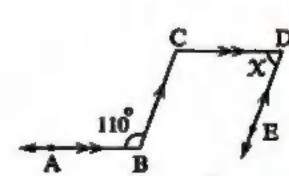


5 In the opposite figure :

CD // BA

, DE // CB

, then  $x = \cdots \circ$ 





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[a] In the opposite figure :

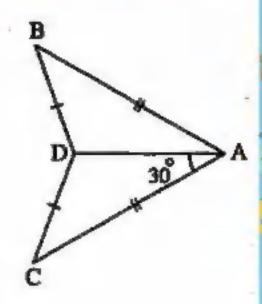
$$AB = AC$$

$$, BD = DC$$

$$m (\angle CAD) = 30^{\circ}$$

1 Prove that :  $\triangle ABD \equiv \triangle ACD$ 

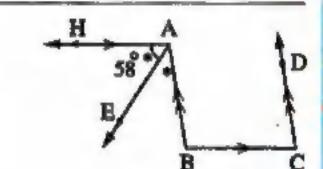
[b] Using the ruler and the compasses • draw the angle ABC where m (∠ ABC) = 110° and draw BD to bisect the angle. (Don't remove the arcs)



[a] In the opposite figure:

, 
$$\overrightarrow{AE}$$
 bisects  $\angle$  BAH , m ( $\angle$  EAH) = 58°

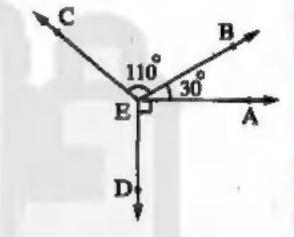
Find: 
$$m (\angle C)$$



[b] In the opposite figure:

$$m (\angle AEB) = 30^{\circ} \cdot m (\angle BEC) = 110^{\circ}$$

$$m (\angle AED) = 90^{\circ}$$

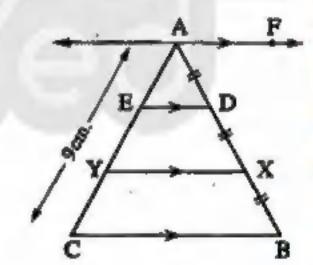


[a] In the opposite figure :

$$AD = DX = XB$$

$$AC = 9 cm$$
.

Find: The length of AY



[b] In the opposite figure:

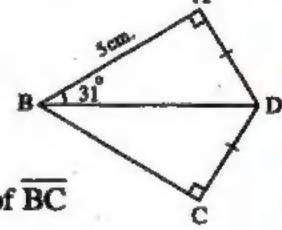
$$m (\angle A) = m (\angle C) = 90^{\circ} \cdot m (\angle ABD) = 31^{\circ}$$

$$AB = 5 cm$$
.

$$,AD = CD$$

Prove that : 
$$\triangle ABD \equiv \triangle CBD$$

2 Find: The length of BC



3 Find: m (∠ CBD)



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#### Luxor Governorate

Luxor Directorate El-Salam Languago School



#### Answer the following questions:

#### Choose the correct answer:

A square is of side length 7 cm. • then its perimeter = ..... cm.

(a) 14

(b) 21

(c) 24

(d) 28

The circumference of the circle = .....

(a) 2 T

(b) 2 π r

(c) TT r

(d)  $\pi r^2$ 

(a) 360

(b) 180

(c) 603

(d) 150

4 If  $L_1 // L_3$ ,  $L_2 // L_3$ , then .....

(a)  $L_1 // L_2$  (b)  $L_1 \perp L_2$  (c)  $L_2 \perp L_3$  (d)  $L_1 \perp L_3$ 

The measure of the supplement of the angle whose measure is 30° equals ......°

(a) 60

(b) 180

(c) 150

(d) 90

B If  $\angle X$  complements  $\angle Y$  and  $\angle X = \angle Y$ , then m ( $\angle X$ ) = .....°

(a) 45

(b) 90

(c) 180

(d) 360

### 2 Complete:

1 Two triangles are congruent if two sides and ...... of one triangle are congruent to their corresponding parts of the other triangle.

2 If m ( $\angle A$ ) = 105°, then m (reflex  $\angle A$ ) = ......°

3 If  $\triangle$  ABC  $\equiv$   $\triangle$  XYZ, then AC  $\equiv$  .....

4 If a straight line intersects two parallel lines , then each two corresponding angles are .....

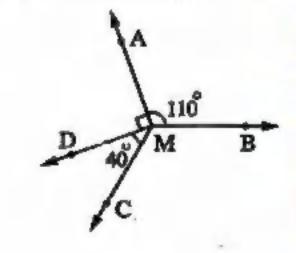
In  $\triangle$  ABC, if m ( $\angle$  A) = 50°, m ( $\angle$  B) = 40°, then m ( $\angle$  C) = ......°

#### [a] In the opposite figure:

 $m (\angle AMB) = 110^{\circ} \cdot m (\angle AMD) = 90^{\circ}$ 

 $m (\angle DMC) = 40^{\circ}$ 

Find: m (\( \subseteq \text{BMC} \) (With steps)





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#### Geometry

المجسل المصطبي الكول

[b] Using the geometric tools , draw ∠ ABC whose measure is 90°

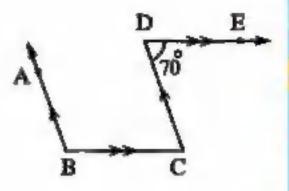
, then draw BF to bisect the angle.

(Don't remove the arcs)

#### [a] In the opposite figure:

• 
$$m (\angle D) = 70^{\circ}$$

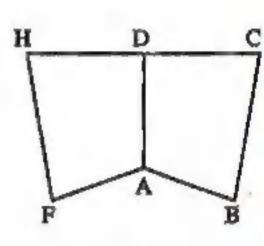
Find:  $m (\angle C) \cdot m (\angle B)$  (Give reason)



#### [b] In the opposite figure:

The polygon ABCD =the polygon AFHD

#### Complete:



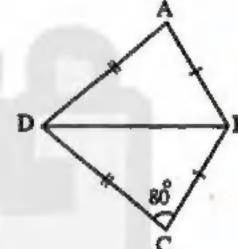
#### [a] In the opposite figure:

$$AB = BC$$

$$,AD = DC$$

$$, m (\angle C) = 80^{\circ}$$

1 Prove that : 
$$\triangle ABD \equiv \triangle CBD$$

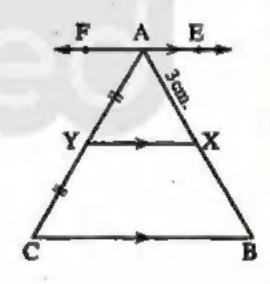


### [b] In the opposite figure:

$$AY = YC$$

$$AX = 3 \text{ cm}$$
.

Find: The length of AB (Give reason)



# الج جديد ذاكر ولي على توہئے وائـس اب

البجــر ام

# التب ذالرولي في البحث وانضم لجروبات ذالرولي منه رياض الاطفال للصف الثالث الاعدادي

تابع جنبد للكرولي على موقعنا أخاضيوان





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